

AMENDMENTS TO THE CLAIMS

Please cancel claims 18-20 and amend claim 1 as follows:

1. (currently amended) A process for *in vivo* expression of longer than seven days of a non-viral, linear DNA nucleic acid sequence from a delivered expression cassette, comprising:
  - a) providing the expression cassette comprising the nucleic acid sequence operably linked to a promoter;
  - b) forming a non-viral, linearized plasmid DNA vector comprising the expression cassette; and,
  - c) delivering the non-viral, linearized plasmid DNA vector to a hepatocyte in a mammal, wherein providing the expression cassette on the non-viral, linearized plasmid DNA vector results in increased expression in the hepatocyte after seven days defined by at least 20% more gene product than is expressed from a supercoiled plasmid from which the linearized plasmid is derived of longer than seven days of the nucleic acid sequence.
2. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains blunt ends.
3. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains sticky ends.
4. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains a blunt end and a sticky end.
5. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector is generated by restriction enzyme digestion.
6. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector is generated by polymerase chain reaction.
7. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains an expression cassette isolated from a plasmid backbone.

8. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains an expression cassette which is flanked by sequence derived from inner Tn5 transposase recognition elements.
9. (previously presented) The process of claim 8, wherein the non-viral, linear DNA vector ends are blunt.
10. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains an expression cassette which is flanked by sequence derived from ~~inner~~ outer Tn5 transposase recognition elements.
11. (previously presented) The process of claim 10, wherein the non-viral, linear DNA vector ends are blunt.
12. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector contains an expression cassette which is flanked by chimeric ends derived from Tn5 transposase recognition elements.
13. (previously presented) The process of claim 12, wherein the non-viral, linear DNA vector ends are blunt.
14. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector is delivered to cells intravascularly.
15. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector are delivered intravascularly using pressure.
16. (canceled)
17. (previously presented) The process of claim 1, wherein the non-viral, linear DNA vector is delivered by direct interstitial injection.
18. (canceled)
19. (canceled)
20. (canceled)